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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT EXAMINING OPERATION

In re Application of:
I.J. Najmuddin

Serial No.: 10/081,090

Filed: February 22, 2002

For: **METHOD AND APPARATUS
FOR DETECTING
FRACTURES USING
FREQUENCY DATA DERIVED
FROM SEISMIC DATA**

Atty. Docket No.: 94.0048

Group Art Unit: 2862

Examiner: V.J. Taylor

MAIL STOP RCE
COMMISSIONER FOR PATENTS
P.O. BOX 1450
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CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date indicated below with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313.

Mark R. Wisna, Registration No. 30,603

June 18, 2003
Date

PRELIMINARY AMENDMENT

Dear Sir:

A Request for Continued Examination is being filed concurrently with this Preliminary Amendment, and before examination of the captioned continued examination application, it is respectfully requested that the following amendments be entered.

IN THE CLAIMS

Add the following new claims:

13. The method of claim 1 wherein the first frequency spectrum associated with the first portion of the seismic traces corresponding to the first window is generated using either Fast Fourier Transform, Cosine Correlation Transform, or Wavelet Transform.

14. The method of claim 1 wherein the second frequency spectrum associated with the second portion of the seismic traces corresponding to the second window is generated using either Fast Fourier transform, Cosine Correlation Transform, or Wavelet Transform.

15. The program storage device of claim 5 wherein the first frequency spectrum associated with the first portion of the seismic traces corresponding to the first window is generated using either Fast Fourier Transform, Cosine Correlation Transform, or Wavelet Transform.

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